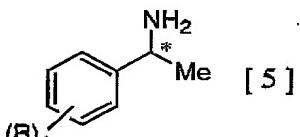


WHAT IS CLAIMED IS:

1. A process for producing an optically active 1-(fluoro- or trifluoromethyl-substituted phenyl)ethylamine represented by the general formula [5]:

5 [Chemical 3]

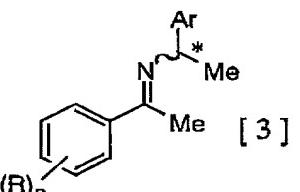


(wherein, R represents a fluorine atom or trifluoromethyl group,

n represents 1 to 5, and it takes an arbitrary substitution position, except for the ortho position when R is a fluorine

10 atom and n is 1, and the asterisk (*) represents a chiral carbon) by asymmetrically reducing an optically active imine represented by the general formula [3]:

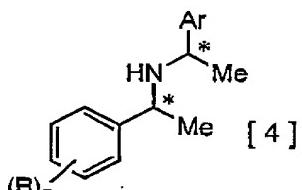
[Chemical 1]



15 (wherein, R represents a fluorine atom or trifluoromethyl group, n represents 1 to 5 and it takes an arbitrary substitution position, except for the ortho position when R is a fluorine atom and n is 1, Ar represents a phenyl group or 1- or 2-naphthyl group, and the asterisk (*) represents a chiral carbon) using a hydride

20 reducing agent, converting to an optically active secondary amine represented by the general formula [4]:

[Chemical 2]



(wherein, R represents a fluorine atom or trifluoromethyl group,
n represents 1 to 5 and it takes an arbitrary substitution position.

5 except for the ortho position when R is a fluorine atom and n
is 1, Ar represents a phenyl group or 1- or 2-naphthyl group,
and the asterisks (*) represent chiral carbons), and subjecting
the secondary amine, its salt of an inorganic acid or its salt
of an organic acid to hydrogenolysis.

10

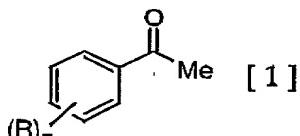
2. The production process according to claim 1, wherein the
hydride reducing agent is sodium borohydride.

15 3. The production process according to claim 1, wherein the
inorganic acid or organic acid comprises hydrochloric acid,
hydrobromic acid, phthalic acid, benzenesulfonic acid,
p-toluenesulfonic acid or optically active mandelic acid.

20 4. The production process according to claim 1, wherein
hydrogenolysis is carried out while heating at 40°C or higher
using a group VIII metal catalyst at 0.5 wt% or less when converted
as metal in a hydrogen atmosphere of 2 MPa or lower.

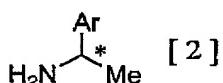
5. The production process according to claim 1, wherein the optically active imine represented by the general formula [3] is an optically active imine obtained by dehydration and
5 condensation under acidic conditions of a fluoro- or trifluoromethyl-substituted phenylmethyl ketone represented by the general formula [1]:

[Chemical 4]



10 (wherein, R represents a fluorine atom or trifluoromethyl group, n represents 1 to 5, and it takes an arbitrary substitution position, except for the ortho position when R is a fluorine atom and n is 1), and an optically active primary amine represented by the general formula [2]:

15 [Chemical 5]

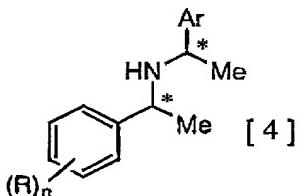


(wherein, Ar represents a phenyl group or 1- or 2-naphthyl group, and the asterisk (*) represents a chiral carbon).

20 6. The production process according to claim 1, wherein stereochemistry of the compound represented by the general formula [3], [4] or [5] is R form or S form.

7. The production process according to claim 5, wherein stereochemistry of the compound represented by the general formula [2] is R form or S form.

5 8. A purification process, characterized in that an optically active secondary amine represented by the general formula [4]:
[Chemical 6]



(wherein, R represents a fluorine atom or trifluoromethyl group.

10 n represents 1 to 5 and it takes an arbitrary substitution position, except for the ortho position when R is a fluorine atom and n is 1, Ar represents a phenyl group or 1- or 2-naphthyl group, and the asterisks (*) represent chiral carbons) is converted to a salt of an inorganic acid or organic acid, followed by
15 purification by recrystallization.

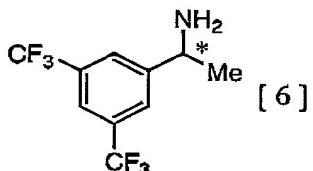
9. The purification process according to claim 8, wherein the inorganic acid or organic acid comprises hydrochloric acid, hydrobromic acid, phthalic acid, benzenesulfonic acid,
20 p-toluenesulfonic acid or optically active mandelic acid.

10. A purification process, characterized in that an optically

active 1-(3,5-bis-trifluoromethylphenyl)ethylamine

represented by the formula [6]:

[Chemical 7]



5 (wherein, the asterisk (*) represents a chiral carbon) is
convered to a salt of an inorganic acid or organic acid, followed
by purification by recrystallization.

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11. The purification process according to claim 10, wherein the
10 organic acid comprises p-toluenesulfonic acid, optically active
mandelic acid or optically active tartaric acid.

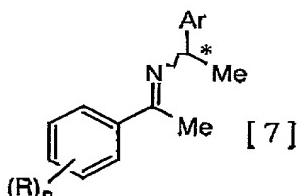
12. The purification process according to claim 8, wherein
stereochemistry of the compound represented by the general
15 formula [4] is R form or S form.

13. The purification process according to claim 10, wherein
stereochemistry of the compound represented by the formula [6]
is R form or S form.

20

14. An optically active imine represented by the general formula
[7]:

[Chemical 8]



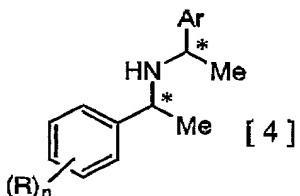
(wherein, R represents a fluorine atom or trifluoromethyl group,

n represents 1 to 5 and it takes an arbitrary substitution position,

- 5 except for the ortho position and the para position when R is
a fluorine atom and n is 1, Ar represents a phenyl group or 1-
or 2-naphthyl group, and the asterisk (*) represents a chiral
carbon).

- 10 15. An optically active secondary amine represented by the
general formula [4]:

[Chemical 9]



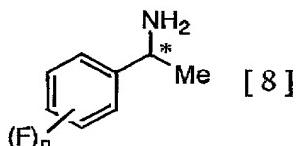
(wherein, R represents a fluorine atom or trifluoromethyl group,

- 15 n represents 1 to 5 and it takes an arbitrary substitution position,
except for the ortho position when R is a fluorine atom and n
is 1, Ar represents a phenyl group or 1- or 2-naphthyl group,
and the asterisks (*) represent chiral carbons).

- 20 16. An optically active 1-(fluoro-substituted

phenyl)ethylamine represented by the general formula [8]:

[Chemical 10]



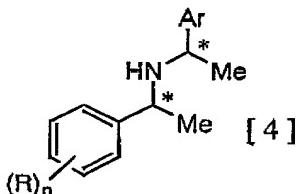
(wherein, n represents 1 to 5 and it takes an arbitrary

5 substitution position, except for the ortho position and the para position when n is 1, and the asterisk (*) represents a chiral carbon).

17. An inorganic or organic acid salt of an optically active

10 secondary amine represented by the general formula [4]:

[Chemical 11]



(wherein, R represents a fluorine atom or trifluoromethyl group,

n represents 1 to 5 and it takes an arbitrary substitution position,

15 except for the ortho position when R is a fluorine atom and n is 1, Ar represents a phenyl group or 1- or 2-naphthyl group, and the asterisks (*) represent chiral carbons).

18. The salt according to claim 17, wherein the inorganic acid

20 or organic acid comprises hydrochloric acid, hydrobromic acid, phthalic acid, benzenesulfonic acid, p-toluenesulfonic acid or

optically active mandelic acid.

19. An inorganic or organic acid salt of an optically active
1-(3,5-bis-trifluoromethylphenyl)ethylamine represented by

5 the formula [6]:

[Chemical 12]



(wherein, the asterisk (*) represents a chiral carbon).

10 20. The salt according to claim 19, wherein the organic acid
comprises p-toluenesulfonic acid, optically active mandelic
acid or optically active tartaric acid.

21. The compound according to claim 14, wherein stereochemistry
15 of the compound represented by the general formula [7] is R form
or S form.

22. The compound according to claim 15, wherein stereochemistry
of the compound represented by the general formula [4] is R form
20 or S form.

23. The compound according to claim 16, wherein stereochemistry

of the compound represented by the general formula [8] is R form or S form.

28. The compound according to claim 19, wherein stereochemistry
5 of the compound represented by the formula [6] is R form or S
form.

THE **W**ORDS **OF** **THE** **W**ISE **MAN** **ARE** **AS** **VALUABLE** **AS** **THE** **W**OOD
IN **THE** **T**REE, **AND** **THE** **W**ISE **MAN** **IS** **AS** **VALUABLE** **AS** **THE** **W**OOD.